

Title (en)

Box making machines and method of retrofitting

Title (de)

Maschinen zur Herstellung von Faltschachteln und Verfahren zum Nachrüsten

Title (fr)

Machines de fabrication de boîtes et méthode pour les moderniser

Publication

**EP 1022121 A3 20010131 (EN)**

Application

**EP 00300017 A 20000105**

Priority

- US 11684999 P 19990122
- US 26581699 A 19990310

Abstract (en)

[origin: EP1022121A2] An existing box-making machine is retrofitted by first removing the pull rolls and impression cylinder and other associated parts and cross-ties. However, the heavy duty side frames and drums, including the print cylinder are left intact in the box-making machine. A vacuum transfer machine is then inserted in the box-making machine and mounted to the existing frame to replace the pull rolls that were removed. The vacuum transfer machine includes a hood enclosure having an impression cylinder for printing, and transport rolls on opposite sides of the impression cylinder for conveying the corrugated boards through the impression and print cylinders and to the die cutter. The boards are held against the transport rolls and the impression cylinder by vacuum generated in a vacuum chamber in the hood which also contains the transport rolls and the impression cylinder. The vacuum chamber contains a plurality of vacuum dampers for controlling the vacuum area in accordance with the size of the boards being processed. For creating vacuum in the vacuum chamber, high performance "volume blowers" are included on the top of the vacuum transfer machine. Exhaust air from the vacuum chamber is dispersed through filters located adjacent to the blowers. The hood is suspended from a cross-tie which is part of the vacuum transfer machine and adapted to be mounted to the opposite side frames of the existing box-making machines. The cross-tie has a vertically adjustable portion for adjusting the nip of the impression cylinder. <IMAGE>

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**B31B 50/07** (2017.01)

CPC (source: EP US)

**B31B 50/00** (2017.07 - EP US); **B31B 50/024** (2017.07 - EP US); **B31B 50/02** (2017.07 - EP US)

Citation (search report)

- [A] US 5246222 A 19930921 - HILL ALAN M [US], et al
- [X] US 5004221 A 19910402 - STARK CHARLES [CH]
- [A] US 3845950 A 19741105 - KUZNIAK B

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DOCDB simple family (application)

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